

IN THE CLAIMS

1. (Previously Amended) A flow sensor package comprising:

B1 a housing having an inlet, an outlet, and first and second channels in communication with the inlet and the outlet;

a sensing element in the first channel;

a restriction in the second channel; and

a seal engaging the sensing element so as to prevent flow of a fluid past the sensing element, wherein the seal has an electrically conductive path from the sensing element to a lead, and wherein the lead is outside of the housing.

2. (Original) The flow sensor package of Claim 1, wherein the housing includes a base and a cover.

B2 3. (Original) The flow sensor package of Claim 2, wherein the seal comprises a pair of elastomeric seals, wherein the sensing element is captured between the elastomeric seals, and wherein the elastomeric seals are arranged to prevent leakage between the base and cover.

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encl*

4. (Original) The flow sensor package of Claim 1, wherein the seal comprises a pair of elastomeric seals, and wherein the sensing element is captured between the elastomeric seals.

5. (Cancelled)

6. (Original) The flow sensor package of Claim 1, wherein the fluid is a liquid or a gas.

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7. (Original) The flow sensor package of Claim 1, wherein the inlet, the outlet, and the second channel are arranged to permit a flow of the fluid through the housing between the inlet and the outlet, and wherein the sensing element is arranged to sense a pressure change across the restriction.

8. (Cancelled)

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9. (Original) The flow sensor package of Claim 1, wherein the inlet, the outlet, and the second channel are arranged to permit a bidirectional flow of the fluid through the housing between the inlet and the

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end
outlet, and wherein the sensing element is arranged to
sense a pressure change across the restriction.

10. (Cancelled)

11. (Previously Amended) A flow sensor
package comprising:

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a housing, an inlet, an outlet, and first and
second channels in communication with the inlet and the
outlet;

a sensing element in the first channel, wherein
the sensing element has first and second opposing sides,
wherein the first side is in fluid communication with the
inlet, and wherein the second side is in fluid
communication with the outlet;

a restriction in the second channel, wherein
the restriction permits flow of a liquid through the
inlet, the second channel, and the outlet; and

a seal engaging the sensing element so as to
prevent flow of the liquid past the sensing element,
wherein the sensing element senses a pressure change
across the restriction.

12. (Original) The flow sensor package of Claim 11, wherein the housing includes a base and a cover.

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13. (Original) The flow sensor package of Claim 12, wherein the seal comprises a pair of elastomeric seals, wherein the sensing element is captured between the elastomeric seals, and wherein the elastomeric seals are arranged to prevent leakage of the liquid between the base and cover.

14. (Original) The flow sensor package of Claim 11, wherein the seal comprises a pair of elastomeric seals, and wherein the sensing element is between the elastomeric seals.

15. (Original) The flow sensor package of Claim 11, wherein the inlet, the outlet, and the second channel are arranged to permit a flow of the liquid through the housing between the inlet and the outlet.

16. (Original) The flow sensor package of Claim 15, wherein the seal has a conductive path from the sensing element to a lead, and wherein the lead extends outside of the housing.

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cont

17. (Original) The flow sensor package of Claim 11, wherein the inlet, the outlet, and the second channel are arranged to permit a bidirectional flow of the liquid through the housing between the inlet and the outlet.

18. (Original) The flow sensor package of Claim 17, wherein the seal has a conductive path from the sensing element to a lead, and wherein the lead extends outside of the housing.

19. (Original) The flow sensor package of Claim 11, wherein the seal has a conductive path from the sensing element to a lead, and wherein the lead extends outside of the housing.

20. (Previously Amended) A method of
determining flow rate through a flow conductor comprising
the following steps of:

creating a pressure change within a housing
having only two separate housing portions;

b7 sensing the pressure change using a sensing
element mounted within the housing;

sealing the sensing element within the housing
using a seal; and

communicating an electrical signal from the
sensing element to an exterior of the housing.

21. (Previously Amended) The method of Claim
20, wherein the sealing step comprises the step of
sealing leakage between the two separate portions of the
housing.

b8 22. (Original) The method of Claim 20,
wherein the sealing step comprises the step of sealing
the sensing element between a pair of elastomeric seals
which capture the sensing element therebetween.

23. (Previously Added) The method of Claim 20, wherein the communicating step comprises the step of communicating the electrical signal from the sensing element through the seal to an exterior of the housing.

24. (Previously Added) The flow sensor package of Claim 1, wherein the seal comprises an elastomeric seal.

25. (New) The method of Claim 20, wherein the step of creating a pressure change within a housing comprises the step of creating the pressure change within the housing by use of a restriction.

26. (New) The flow sensor package of Claim 1, wherein the seal comprises a perimeter commensurate with a perimeter of the sensing element.

on of the same size

27. (New) The flow sensor package of Claim 26, wherein the seal is coaxial with the sensing element.

28. (New) The flow sensor package of Claim 1, wherein the seal is coaxial with the sensing element.